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Datum/Date 26.01.04

Zeichen/Ref./Réf.

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Anmeldung Nr/Application No/Demande n°/Patent Nr /Patent No/Brevet n°. 03256150.8-1261-

Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire Strapack Corporation

COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report for the above—mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

The following specifications given by the applicant have been approved by the Search Division:

Abstract

☐ title

The abstract was modified by the Search Division and the definitive text is attached to this communication.

The following figure will be published together with the abstract:

1

REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.



EUROPEAN SEARCH REPORT

Application Number EP 03 25 6150

		ERED TO BE RELEVANT					
Category	of relevant pas	ndication, where appropriate, sages	to da		FICATION OF THE ATION (Int.CI.7)		
P,A	EP 1 298 059 A (ILL 2 April 2003 (2003- * the whole documen	1,2,8	B65B1 B65B1				
4	EP 1 174 376 A (STE 23 January 2002 (20 * paragraph '0018! figure 2 *	002-01-23)	1,2,8	3			
٠ .	EP 0 604 783 A (SIG 6 July 1994 (1994-0 * column 1, line 47 * column 4, line 4		1,2,8	3			
١	EP 0 596 288 A (SIG 11 May 1994 (1994-0 * column 1, line 5 figures 1,2 *		1,2,8	3			
	EP 0 353 505 A (SIG 7 February 1990 (19 * claim 1; figure 1	90-02-07)	1,2,8	B65B	NICAL FIELDS CHED (Int.CI.7)		
	DE 37 34 663 A (STR 21 April 1988 (1988 * the whole documen	3-04-21)	1,2,8	B65H			
	A) 24 October 1979	VER LTD F A;WHITCROFT J (1979-10-24) line 98; figures 1-7 *	1,2,8	3	•		
	PATENT ABSTRACTS OF vol. 2000, no. 13, 5 February 2001 (20 & JP 2000 289706 A 17 October 2000 (20 * abstract *	01-02-05) (STRAPACK CORP),	1,2,8				
	The present search raped has	-/					
	The present search report has	Date of completion of the search	<u> </u>				
	THE HAGUE	15 January 2004		Vigilante			
X : parti Y : parti docu A : techi	ATEGORY OF CITED DOCUMENTS cularly relevant if taken alone cularly relevant if combined with anolment of the same category nological background written disclosure	T : theory or principle E : earlier patent doc after the filing date	underlyin cument, bu e the applic	ng the invention it published on, or cation			

1



EUROPEAN SEARCH REPORT

Application Number EP 03 25 6150

<u> </u>	DOCUMENTS CONSID				
Category	Citation of document with of relevant pas	ndication, where appropriate, sages		elevant claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)
A .	PATENT ABSTRACTS OF vol. 013, no. 526 (22 November 1989 (1 & JP 01 213107 A (N 25 August 1989 (198 * abstract *	1,2	2,8		
4	US 6 038 967 A (HYL 21 March 2000 (2000 * column 5, line 30 figure 13 *	TON GARY L ET AL) 0-03-21) 0- column 8, line 8;	1,2	2,8	
	US 5 651 306 A (HOS 29 July 1997 (1997- * the whole documer	-07–29)	1,2	2,8	,
	US 5 560 187 A (NAG 1 October 1996 (199 * the whole documer	GASHIMA AKIRA ET AL) 16-10-01) 1t *	1,2	2,8	•
	11 September 1990 (* column 1, line 47	AKI YASUNORI ET AL) 1990-09-11) 7 - column 3, line 11 * 8 - column 4, line 31 *	1,2	2,8	TECHNICAL FIELDS SEARCHED (Int.CI.7)
	US 4 691 498 A (STA 8 September 1987 (1 * the whole documer	987-09-08)	1,2	2,8	
\	US 3 946 921 A (NOG 30 March 1976 (1976 * column 3, line 17 *		8 1,2	2,8	·
					· ·
	The present search report has	been drawn up for all claims	-		
- ,,	Place of search	Date of completion of the search			Examiner
	THE HAGUE	15 January 2004		Via	ilante, M
CA X : partik Y : partik docui	ATEGORY OF CITED DOCUMENTS cularly relevant if taken alone cularly relevant if combined with another to the same category nological background	T : theory or princ E : earlier patent after the filing her D : document cite L : document cite	iple unde document date d in the a	rlying the in t, but publish pplication r reasons	nvention

This annex lists the patent family members relating to the patent documents cited in the above–mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

15-01-2004

Patent docume cited in search re		Publication date		Patent fam member(s		Publicatio date
EP 1298059		02-04-2003	US	2003009995	Δ1	16-01-200
			CA	2404661		28-03-200
			CN	1408611	A	09-04-200
			EP	1298059	A1	02-04-200
•	•		JP		A	18-04-200
						10-04-200
EP 1174376	Α	23-01-2002	JP		Α	29-01-200
			CA	2353273	A1	19-01-200
			EP		A2	23-01-200
			TW	483853	В	21-04-200
			US	2002007615	A1	24-01-200
EP 0604783	Α	06-07-1994	US	5287802		22-02-199
			ΑT	148858	T	15-02-199
			ΑU	650398	B1	16-06-199
			BR	9305044	Α	16-08-199
			CA	2110734	A1	15-06-199
			CN	1100054	Α .	15-03-199
		•	DE	69308116	D1	27-03-199
		•	DE	69308116	T2	28-05-199
			EΡ	0604783	A2	06-07-199
			ES	2097427	T3	01-04-199
			FΙ	935581	Α	15-06-199
		•	JP	2543483	B2	16-10-199
•		•	JP	6199307	Α	19-07-199
		•	KR	9704765	B1	03-04-199
	•		MX	9307803	A1	30-06-199
•			NO		Α	15-06-199
			NZ	250410	Α	27-02-199
			ZA	9309245	Α	05-08-199
EP 0596288	Α	11-05-1994	US	5333438	Α	02-08-199
			ΑT	147342	T	15-01-199
			ΑU	651932	B2	04-08-199
			ΑU	4881393	Α	26-05-199
			ΑU	655554		22-12-199
			ΑU	6339194		21-07-199
			ΑU	655739		05-01-199
			ΑU	6339294		21-07-199
			BR	9304098		10-05-199
			CA	2107399		07-05-199
•			DE	69307268		20-02-199
			DE	69307268		30-04-199
			DE	69320665		01-10-199
			DE	69320665		07-01-199
			DE	69326086		23-09-199
•			. –	== 3===30	-· -	

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of Information.

15-01-2004

JP 6211208 A 02-08-19 NO 934004 A 09-05-19 NZ 250130 A 27-06-19 NZ 264736 A 27-06-19 NZ 264736 A 27-06-19 NZ 264736 A 27-06-19 ZA 9307349 A 29-06-19 EP 0353505 A 07-02-1990 DE 3825668 C1 15-02-19 DE 58901679 D1 23-07-19 EP 0353505 A1 07-02-19 JP 2006188 C 11-01-19 JP 2180109 A 13-07-19 JP 2180109 A 13-07-19 JP 2180109 A 13-07-19 JP 2180109 A 13-07-19 JP 2000289706 A 24-10-1979 NONE JP 2000289706 A 17-10-2000 NONE JP 01213107 6 A NONE US 6038967 A 21-03-2000 US 5809873 A 22-09-19 AT 212930 T 15-02-20 DE 69710354 D1 21-03-20 DE 69710354 D1 21-03-20 DE 69710354 T2 06-03-20 DE 69710354 T3 02-08-20 US 5651306 A 29-07-1997 JP 3346935 B2 18-11-20 JP 8217011 A 27-08-19 US 5651306 A 29-07-1997 JP 8217010 A 27-08-19 US 5		Patent document cited in search repo		Publication date		Patent far member		Publication date
EP 0596288 A2 11-05-19 EP 0738658 A2 23-10-19 EP 0739820 A2 30-10-19 ES 2096833 T3 16-03-19 ES 2119532 T3 01-10-19 JP 2586993 B2 05-03-19 JP 6211208 A 02-08-19 NO 934004 A 09-05-19 NZ 250130 A 27-06-19 NZ 264736 A 27-06-19 NZ 264736 A 27-06-19 NZ 264736 A 27-06-19 EP 0353505 A1 07-02-1990 DE 3825668 C1 15-02-19 JP 2006188 C 11-01-19 JP 2006188 C 11-01-19 JP 2006188 C 11-01-19 JP 7023134 B 15-03-19 DE 3734663 A 21-04-1988 DE 3734663 A1 21-04-19 JP 2180109 A 13-07-19 JP 7023134 B 15-03-19 DE 3734663 A 21-04-1988 DE 3734663 A1 21-04-19 JP 2000289706 A 17-10-2000 NONE JP 01213107 6 A NONE US 6038967 A 21-03-2000 US 5809873 A 22-09-19 DE 69710354 D1 21-03-20 DE 69710354 D1 21-03-20 DE 69710354 D1 21-03-20 DE 69710354 T2 06-03-20 DE 69710354 T2 06-03-20 DE 69710354 T2 06-03-20 DE 69710354 T2 06-03-20 DE 6970354 T2 06-03-20 DE 6970354 T3 15-02-19 JP 2000509683 T 02-08-20 EP 1059234 A1 13-12-20 EP 0938429 A1 01-09-19 JP 2000509683 T 02-08-20 EP 0938429 A1 01-09-19	ΕP	0596288	Α		DF	69326086	T2	09-12-1000
EP 0738658 A2 23-10-19 EP 0739820 A2 30-10-19 ES 2096833 T3 16-03-19 ES 2119532 T3 01-11-19 ES 2135823 T3 01-11-19 FI 934899 A 07-05-19 JP 2586993 B2 05-03-19 JP 6211208 A 02-08-19 NO 934004 A 09-05-19 NZ 264736 A 27-06-19 NZ 264736 A 27-06-19 NZ 264736 A 27-06-19 JP 0353505 A 07-02-1990 DE 3825668 C1 15-02-19 JP 2006188 C 11-01-19 JP 2006188 C 11-01-19 JP 2180109 A 13-07-19 JP 2180109 A 13-07-19 JP 2180109 A 13-07-19 GB 2019040 A 24-10-1979 NONE JP 01213107 6 A NONE US 6038967 A 21-03-2000 NONE US 6038967 A 21-03-2000 NONE US 69710354 D1 21-03-20 DE 69710354 D1 21-03-20								
EP 0739820 A2 30-10-19 ES 2096833 T3 16-03-19 ES 2119532 T3 01-10-19 ES 2135823 T3 01-10-19 ES 2135823 T3 01-11-19 FI 934899 A 07-05-19 JP 6211208 A 02-08-19 NO 934004 A 09-05-19 NZ 264736 A 27-06-19 NZ 264736 A 27-06-19 NZ 264736 A 27-06-19 EP 0353505 A 07-02-1990 DE 3825668 C1 15-02-19 DE 58901679 D1 23-07-19 EP 0353505 A1 07-02-1990 DE 3801679 D1 23-07-19 EP 0353505 A1 07-02-1990 DF 2801679 D1 23-07-19 JP 2006188 C 11-01-19 JP 2006188 C 11-01-19 JP 7023134 B 15-03-19 DE 3734663 A 21-04-1988 DE 3734663 A1 21-04-19 JP 7023134 B 15-03-19 DE 3734663 A 24-10-1979 NONE JP 2000289706 A 17-10-2000 NONE JP 01213107 6 A NONE US 6038967 A 21-03-2000 US 5809873 A 22-09-19 AT 212930 T 15-02-20 DE 69710354 D1 21-03-20 DE 69710354 D1 21-03-20 DE 69710354 T2 06-03-20 EP 0938429 A1 01-09-19 JP 2000509683 T 02-08-20 EP 0938429 A1 01-09-19 JP 8217010 A 27-08-19		•						
ES 2096833 T3 16-03-19 ES 2119532 T3 01-10-19 ES 2119532 T3 01-10-19 ES 2135823 T3 01-10-19 FI 934899 A 07-05-19 JP 2586993 B2 05-03-19 JP 2586993 B2 05-03-19 NO 934004 A 02-08-19 NO 934004 A 02-08-19 NZ 250130 A 27-06-19 NZ 264736 A 27-06-19 NZ 264736 A 27-06-19 NZ 264736 A 27-06-19 EP 0353505 A 07-02-1990 DE 3825668 C1 15-02-19 EP 0353505 A1 07-02-19 JP 2006188 C 11-01-19 JP 2006188 C 11-01-19 JP 2180109 A 13-07-19 JP 2180109 A 13-07-19 JP 7023134 B 15-03-19 DE 3734663 A 21-04-1988 DE 3734663 A1 21-04-19 JP 2000289706 A 17-10-2000 NONE JP 2000289706 A 17-10-2000 NONE US 6038967 A 21-03-2000 US 5809873 A 22-09-19 AT 212930 T 15-02-20 DE 69710354 D1 21-03-20 DE 69710354 D1 21-03-20 DE 69710354 T2 06-03-20 DE 69710								
ES 2119532 T3 01-10-19 ES 2135823 T3 01-10-19 FI 934899 A 07-05-19 JP 2586993 B2 05-03-19 JP 6211208 A 02-08-19 NO 934004 A 09-05-19 NZ 264736 A 27-06-19 NZ 264736 A 27-06-19 NZ 264736 A 27-06-19 NZ 264736 A 27-06-19 EP 0353505 A 07-02-1990 DE 3825668 C1 15-02-19 DE 58901679 D1 23-07-19 JP 2006188 C 11-01-19 JP 2180109 A 13-07-19 JP 2000289706 A 17-10-2000 NONE JP 2000289706 A 17-10-2000 NONE US 6038967 A 21-03-2000 US 5809873 A 22-09-19 AT 212930 T 15-02-20 DE 69710354 T2 06-03-20 DE 69710354 T2 06-03-20 DE 69710354 T2 06-03-20 DE 69710354 T1 13-12-20 EP 0938429 A1 01-09-19 JP 2000509683 T 02-08-20 US 5651306 A 29-07-1997 JP 3346935 B2 18-11-20 US 5651306 A 29-07-1997 JP 3346935 B2 18-11-20 US 5651306 A 29-07-1997 JP 3346935 B2 18-11-20 JP 8217011 A 27-08-19 JP 8217011 A 27-08-19								
ES 2135823 T3 01-11-19 FI 934899 A 07-05-19 JP 2586993 B2 05-03-19 JP 6211208 A 02-08-19 NO 934004 A 09-05-19 NZ 250130 A 27-06-19 NZ 264736 A 27-06-19 NZ 264736 A 27-06-19 ZA 9307349 A 29-06-19 EP 0353505 A 07-02-1990 DE 3825668 C1 15-02-19 EP 0353505 A 07-02-1990 DE 58901679 D1 23-07-19 EP 0353505 A1 07-02-19 JP 2006188 C 11-01-19 JP 2180109 A 13-07-19 JP 2000289706 A 17-10-2000 NONE JP 2000289706 A 17-10-2000 NONE US 6038967 A 21-03-2000 US 5809873 A 22-09-19 AT 212930 T 15-02-20 DE 69710354 D1 21-03-20 DE 69710354 D1 21-03-20 DE 69710354 D1 21-03-20 DE 69710354 D1 21-03-20 DE 69710354 T2 06-03-20 DE 69710								
FI 934899 A 07-05-19 JP 2586993 B2 05-03-19 JP 6211208 A 02-08-19 NO 934004 A 09-05-19 NZ 250130 A 27-06-19 NZ 264736 A 27-06-19 NZ 264736 A 27-06-19 ZA 9307349 A 29-06-19 EP 0353505 A 07-02-1990 DE 3825668 C1 15-02-19 DE 58901679 D1 23-07-19 EP 0353505 A 07-02-1990 JP 2006188 C 11-01-19 JP 2006188 C 11-01-19 JP 2006188 C 11-01-19 JP 7023134 B 15-03-19 DE 3734663 A 21-04-1988 DE 3734663 A1 21-04-19 JP 7023134 B 15-03-19 DE 3734663 A 24-10-1979 NONE JP 2000289706 A 17-10-2000 NONE JP 01213107 6 A NONE US 6038967 A 21-03-2000 US 5809873 A 22-09-19 AT 212930 T 15-02-20 DE 69710354 D1 21-03-20 DE 69710354 D1 21-03-20 DE 69710354 D1 21-03-20 DE 69710354 T2 06-03-20 EP 1059234 A1 13-12-20 EP 0938429 A1 01-09-19 JP 200059683 T 02-08-20 WO 9822348 A1 28-05-19 US 5651306 A 29-07-1997 JP 3346935 B2 18-11-20 JP 8217011 A 27-08-19 JP 8217010 A 27-08-19								
JP 2586993 B2 05-03-19 JP 6211208 A 02-08-19 NZ 250130 A 27-06-19 NZ 250130 A 27-06-19 NZ 264736 A 27-06-19 NZ 264736 A 27-06-19 DE 3825668 C1 15-02-19 DE 58901679 D1 23-07-19 EP 0353505 A1 07-02-1990 DE 58901679 D1 23-07-19 EP 0353505 A1 07-02-19 JP 2006188 C 11-01-19 JP 2180109 A 13-07-19 JP 2180109 A 13-07-19 JP 7023134 B 15-03-19 DE 3734663 A 21-04-1988 DE 3734663 A1 21-04-19 GB 2019040 A 24-10-1979 NONE JP 2000289706 A 17-10-2000 NONE JP 01213107 6 A NONE US 6038967 A 21-03-2000 US 5809873 A 22-09-19 AT 212930 T 15-02-20 DE 69710354 D1 21-03-20 DE 69710354 D1 21-03-20 DE 69710354 T2 06-03-20 DE 69710354 T2 06-03-2								
JP 6211208 A 02-08-19 NO 934004 A 09-05-19 NZ 250130 A 27-06-19 NZ 264736 A 27-06-19 NZ 264736 A 27-06-19 ZA 9307349 A 29-06-19 EP 0353505 A 07-02-1990 DE 3825668 C1 15-02-19 DE 58901679 D1 23-07-19 EP 0353505 A1 07-02-19 JP 2006188 C 11-01-19 JP 2180109 A 13-07-19 JP 2180109 A 13-07-19 JP 7023134 B 15-03-19 DE 3734663 A 21-04-1988 DE 3734663 A1 21-04-19 IT 212321 Z2 04-07-19 GB 2019040 A 24-10-1979 NONE JP 2000289706 A 17-10-2000 NONE JP 2000289706 A 17-10-2000 NONE US 6038967 A 21-03-2000 US 5809873 A 22-09-19 AT 212930 T 15-02-20 DE 69710354 D1 21-03-20 DE 69710354 D1 21-03-20 DE 69710354 T2 06-03-20 DE 69700354 T3 02-08-20 US 5651306 A 29-07-1997 JP 3346935 B2 18-11-20 JP 8217011 A 27-08-19 US 5651306 A 29-07-1997 JP 8217010 A 27-08-19 US 5651306 A 29-07-1997 JP 821								
NO 934004 A 09-05-19 NZ 250130 A 27-06-19 NZ 264736 A 29-06-19 EP 0353505 A 107-02-19 DE 58901679 D1 23-07-19 EP 0353505 A1 07-02-19 JP 2006188 C 11-01-19 JP 2086188 C 11-01-19 JP 2180109 A 13-07-19 JP 7023134 B 15-03-19 DE 3734663 A 21-04-1988 DE 3734663 A1 21-04-19 IT 212321 Z2 04-07-19 GB 2019040 A 24-10-1979 NONE JP 2000289706 A 17-10-2000 NONE JP 01213107 6 A NONE US 6038967 A 21-03-2000 US 5809873 A 22-09-19 AT 212930 T 15-02-20 DE 69710354 D1 21-03-20 DE 69710354 D1 21-03-20 DE 69710354 T2 06-03-20 EP 1059234 A1 13-12-20 EP 1059234 A1 13-12-20 EP 0938429 A1 01-09-19 JP 2000509683 T 02-08-20 WO 9822348 A1 28-05-19 US 5651306 A 29-07-1997 JP 3346935 B2 18-11-20 JP 8217011 A 27-08-19 JP 8217010 A 27-08-19								05-03-1997
NZ				r				02-08-1994
NZ 264736 A 27-06-19 ZA 9307349 A 29-06-19 EP 0353505 A 07-02-1990 DE 3825668 C1 15-02-19 DE 58901679 D1 23-07-19 EP 0353505 A1 07-02-19 JP 2006188 C 11-01-19 JP 2180109 A 13-07-19 JP 7023134 B 15-03-19 DE 3734663 A 21-04-1988 DE 3734663 A1 21-04-19 IT 212321 Z2 04-07-19 GB 2019040 A 24-10-1979 NONE JP 2000289706 A 17-10-2000 NONE US 6038967 A 21-03-2000 US 5809873 A 22-09-19 AT 212930 T 15-02-20 DE 69710354 D1 21-03-20 DE 69710354 D1 21-03-20 DE 69710354 T2 06-03-20 EP 1059234 A1 13-12-20 DE 69710354 T2 06-03-20 EP 0938429 A1 01-09-19 JP 2000509683 T 02-08-20 WO 9822348 A1 28-05-19 US 5651306 A 29-07-1997 JP 3346935 B2 18-11-20 JP 8217011 A 27-08-19 JP 8217010 A 27-08-19			•					09-05-1994
ZA 9307349 A 29-06-19 EP 0353505 A 07-02-1990 DE 3825668 C1 15-02-19								27-06-1999
EP 0353505 A 07-02-1990 DE 3825668 C1 15-02-19								27-06-1995
DE 58901679 D1 23-07-19 EP 0353505 A1 07-02-19 JP 2006188 C 11-01-19 JP 2180109 A 13-07-19 JP 7023134 B 15-03-19 DE 3734663 A 21-04-1988 DE 3734663 A1 21-04-19 IT 212321 Z2 04-07-19 GB 2019040 A 24-10-1979 NONE JP 2000289706 A 17-10-2000 NONE JP 01213107 6 A NONE US 6038967 A 21-03-2000 US 5809873 A 22-09-19 AT 212930 T 15-02-20 DE 69710354 D1 21-03-20 DE 69710354 T2 06-03-20 DE 697					ZA	9307349	Α	29-06-1994
DE 58901679 D1 23-07-19 EP 0353505 A1 07-02-19 JP 2006188 C 11-01-19 JP 2180109 A 13-07-19 JP 7023134 B 15-03-19 DE 3734663 A 21-04-1988 DE 3734663 A1 21-04-19 IT 212321 Z2 04-07-19 GB 2019040 A 24-10-1979 NONE JP 2000289706 A 17-10-2000 NONE JP 01213107 6 A NONE US 6038967 A 21-03-2000 US 5809873 A 22-09-19 AT 212930 T 15-02-20 DE 69710354 D1 21-03-20 DE 69710354 T2 06-03-20 DE 697	ΕP	0353505	Α	07-02-1990				15-02-199(
EP 0353505 A1 07-02-19 JP 2006188 C 11-01-19 JP 2180109 A 13-07-19 JP 7023134 B 15-03-19 DE 3734663 A 21-04-1988 DE 3734663 A1 21-04-19 IT 212321 Z2 04-07-19 GB 2019040 A 24-10-1979 NONE JP 2000289706 A 17-10-2000 NONE JP 01213107 6 A NONE US 6038967 A 21-03-2000 US 5809873 A 22-09-19 AT 212930 T 15-02-20 DE 69710354 D1 21-03-20 DE 69710354 T2 06-03-20 DE 69710354 T2 06-03-20 DE 69710354 T2 06-03-20 DE 69710354 T2 06-03-20 DE 69710354 T1 13-12-20 DE 69710354 T2 06-03-20 DE 70938429 A1 01-09-19			•	•		58901679	D1	23-07-1992
JP 2006188 C 11-01-19 JP 2180109 A 13-07-19 JP 7023134 B 15-03-19 DE 3734663 A 21-04-1988 DE 3734663 A1 21-04-19 IT 212321 Z2 04-07-19 GB 2019040 A 24-10-1979 NONE JP 2000289706 A 17-10-2000 NONE JP 01213107 6 A NONE US 6038967 A 21-03-2000 US 5809873 A 22-09-19 AT 212930 T 15-02-20 DE 69710354 D1 21-03-20 DE 69710354 D1 21-03-20 DE 69710354 T2 06-03-20 DE 69710354 T2 06-03-20 EP 1059234 A1 13-12-20 EP 0938429 A1 01-09-19 JP 2000509688 T 02-08-20 WO 9822348 A1 28-05-19 US 5651306 A 29-07-1997 JP 3346935 B2 18-11-20 JP 8217011 A 27-08-19 JP 8217011 A 27-08-19						0353505	A1	07-02-1990
JP 2180109 A 13-07-19 JP 7023134 B 15-03-19 DE 3734663 A 21-04-1988 DE 3734663 A1 21-04-19 IT 212321 Z2 04-07-19 GB 2019040 A 24-10-1979 NONE JP 2000289706 A 17-10-2000 NONE JP 01213107 6 A NONE US 6038967 A 21-03-2000 US 5809873 A 22-09-19 AT 212930 T 15-02-20 DE 69710354 D1 21-03-20 DE 69710354 T2 06-03-20 DE 69710354 T2 06-03-20 EP 1059234 A1 13-12-20 EP 0938429 A1 01-09-19 JP 2000509683 T 02-08-20 WO 9822348 A1 28-05-19 US 5651306 A 29-07-1997 JP 3346935 B2 18-11-20 JP 8217011 A 27-08-19 JP 8217010 A 27-08-19					JP	2006188	С	11-01-1996
DE 3734663 A 21-04-1988 DE 3734663 A1 21-04-19 GB 2019040 A 24-10-1979 NONE JP 2000289706 A 17-10-2000 NONE JP 01213107 6 A NONE US 6038967 A 21-03-2000 US 5809873 A 22-09-19 AT 212930 T 15-02-20 DE 69710354 D1 21-03-20 DE 69710354 D1 21-03-20 DE 69710354 T2 06-03-20 DE 69710354 T2 06-03-20 EP 1059234 A1 13-12-20 EP 0938429 A1 01-09-19 JP 2000509683 T 02-08-20 WO 9822348 A1 28-05-19 US 5651306 A 29-07-1997 JP 3346935 B2 18-11-20 JP 8217010 A 27-08-19				•	JP	2180109	Α	13-07-1990
TT 212321 Z2 04-07-19 GB 2019040 A 24-10-1979 NONE JP 2000289706 A 17-10-2000 NONE JP 01213107 6 A NONE US 6038967 A 21-03-2000 US 5809873 A 22-09-19					JP	7023134	В	15-03-1995
TT 212321 Z2 04-07-19 GB 2019040 A 24-10-1979 NONE JP 2000289706 A 17-10-2000 NONE JP 01213107 6 A NONE US 6038967 A 21-03-2000 US 5809873 A 22-09-19	DE	3734663	A	21-04-1988	DE	3734663	A1	21-04-1988
JP 2000289706 A 17-10-2000 NONE JP 01213107 6 A NONE US 6038967 A 21-03-2000 US 5809873 A 22-09-19								04-07-1989
JP 01213107 6 A NONE US 6038967 A 21-03-2000 US 5809873 A 22-09-19 AT 212930 T 15-02-20 DE 69710354 D1 21-03-20 DE 69710354 T2 06-03-20 EP 1059234 A1 13-12-20 EP 0938429 A1 01-09-19 JP 2000509683 T 02-08-20 WO 9822348 A1 28-05-19 US 5651306 A 29-07-1997 JP 3346935 B2 18-11-20 JP 8217011 A 27-08-19 JP 8217010 A 27-08-19	GB	2019040	· A	24-10-1979 ⁻	NONE			
US 6038967 A 21-03-2000 US 5809873 A 22-09-19 AT 212930 T 15-02-20 DE 69710354 D1 21-03-20 DE 69710354 T2 06-03-20 EP 1059234 A1 13-12-20 EP 0938429 A1 01-09-19 JP 2000509683 T 02-08-20 WO 9822348 A1 28-05-19 US 5651306 A 29-07-1997 JP 3346935 B2 18-11-20 JP 8217011 A 27-08-19 JP 8217010 A 27-08-19	JP	2000289706	Α	17-10-2000	NONE			
AT 212930 T 15-02-20 DE 69710354 D1 21-03-20 DE 69710354 T2 06-03-20 EP 1059234 A1 13-12-20 EP 0938429 A1 01-09-19 JP 2000509683 T 02-08-20 WO 9822348 A1 28-05-19 US 5651306 A 29-07-1997 JP 3346935 B2 18-11-20 JP 8217011 A 27-08-19 JP 8217010 A 27-08-19	JP	01213107 6	A		NONE			
AT 212930 T 15-02-20 DE 69710354 D1 21-03-20 DE 69710354 T2 06-03-20 EP 1059234 A1 13-12-20 EP 0938429 A1 01-09-19 JP 2000509683 T 02-08-20 WO 9822348 A1 28-05-19 US 5651306 A 29-07-1997 JP 3346935 B2 18-11-20 JP 8217011 A 27-08-19 JP 8217010 A 27-08-19	US	6038967	Α	21-03-2000	US	5809873	A	22-09-1998
DE 69710354 D1 21-03-20 DE 69710354 T2 06-03-20 EP 1059234 A1 13-12-20 EP 0938429 A1 01-09-19 JP 2000509683 T 02-08-20 WO 9822348 A1 28-05-19 US 5651306 A 29-07-1997 JP 3346935 B2 18-11-20 JP 8217011 A 27-08-19 JP 8217010 A 27-08-19		·			ΑT			15-02-2002
DE 69710354 T2 06-03-20 EP 1059234 A1 13-12-20 EP 0938429 A1 01-09-19 JP 2000509683 T 02-08-20 W0 9822348 A1 28-05-19 US 5651306 A 29-07-1997 JP 3346935 B2 18-11-20 JP 8217011 A 27-08-19 JP 8217010 A 27-08-19				•				21-03-2002
EP 1059234 A1 13-12-20 EP 0938429 A1 01-09-19 JP 2000509683 T 02-08-20 W0 9822348 A1 28-05-19 US 5651306 A 29-07-1997 JP 3346935 B2 18-11-20 JP 8217011 A 27-08-19 JP 8217010 A 27-08-19								06-03-2003
EP 0938429 A1 01-09-19 JP 2000509683 T 02-08-20 W0 9822348 A1 28-05-19 US 5651306 A 29-07-1997 JP 3346935 B2 18-11-20 JP 8217011 A 27-08-19 JP 8217010 A 27-08-19								
US 5651306 A 29-07-1997 JP 3346935 B2 18-11-20 JP 8217011 A 27-08-19 JP 8217010 A 27-08-19								
WO 9822348 A1 28-05-19 US 5651306 A 29-07-1997 JP 3346935 B2 18-11-20 JP 8217011 A 27-08-19 JP 8217010 A 27-08-19								
JP 8217011 A 27-08-19 JP 8217010 A 27-08-19								28-05-1998
JP 8217011 A 27-08-19 JP 8217010 A 27-08-19	US	5651306	Α	29-07-1997	JP	3346935	 B2	 18-11-2002
JP 8217010 A 27-08-19								
All								
CN 1132712 A , B 09-10-19 DE 19547282 A1 22-08-19 nore details about this annex : see Official Journal of the European Patent Office, No. 12/82					~			
DE 19547282 A1 22-08-19 nore details about this annex : see Official Journal of the European Patent Office, No. 12/82					CN	1132712	ΔR	
nore details about this annex : see Official Journal of the European Patent Office, No. 12/82					DE	19547282	A1	22-08-1996
The European Patent Unice, No. 12/82	nore (details about this an	ney : see O	fficial lournal of the F	uranasa	Potent Office At		
	.0.0	-come andit tills all	iica . see U	muai Journal of the E	uropean	ratent Office, No.	12/82	

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 03 25 6150

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

15-01-2004

	Patent documer cited in search rep		Publication date		Patent fam member(s		Publication date
US	5560187	Α	01-10-1996	JP	7187119	Α	25-07-1995
US	4955180	Α	11-09-1990	JP	1648666	C	13-03-1992
				JP	3009003	В	07-02-1991
				JP	63317404	Α	26-12-1988
			٠	JP	1866422	C	26-08-1994
				JР	3009004	В	07-02-1991
		•		JP	63317405	Α	26-12-1988
				CA	1320427	С	20-07-1993
				DE	3820569	A1	29-12-1988
				ES	2007932	A6	01-07-1989
				FR	2616750	A1	23-12-1988
				GB	2205807	A ,B	21-12-1988
				ΙT	1219654	В	24-05-1990
				KR	9108309	B1	12-10-1991
US	4691498	Α	08-09-1987	СН	668402	A5	30-12-1988
				CA	1262678	A1	07-11-1989
				· DE	3674439	D1	31-10-1990
				DE	8533188	U1	30-01-1986
				EP	0195345		24-09-1986
				JP ·	61217316	Α .	26-09-1986
US	3946921	Α	30-03-1976	JP	870988	С	20-07-1977
				JP	50112199	Α	03-09-1975
			•	JP	51044472	В	29-11-1976

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82